STATEMENT OF BASIS for EFS PARLIN HOLDINGS LLC

TITLE V OPERATING PERMIT SIGNIFICANT MODIFICATION

Program Interest (PI): 18061 / Permit Activity Number: BOP160001

I. FACILITY INFORMATION

EFS Parlin Holdings LLC is located at 790 Washington Road, Parlin, NJ 08859, Middlesex County and consists of an electric generation and distribution facility. The facility is owned and operated by GE Power Generation Services.

The facility is classified as a major facility based on its potential to emit 47.4 tons per year of volatile organic compounds, 231 tons per year of NOx and 191.4 tons per year of CO to the atmosphere.

This permit allows individual hazardous air pollutant to be emitted at a rate to not exceed: 62.4 pounds per year of acrolein, 6 pounds per year of arsenic compounds, 4 pounds per year of cadmium compounds, and 426 pounds per year of manganese compounds.

II. AREA ATTAINMENT CLASSIFICATION

The Federal Clean Air Act (CAA) sets National Ambient Air Quality Standards (NAAQS) for six common air pollutants. These commonly found air pollutants (also known as "criteria pollutants") are particulate matter, ground-level ozone, carbon monoxide (CO), sulfur dioxide (SO2), nitrogen dioxide (NO2), and lead. The US Environmental Protection Agency (USEPA) also classifies areas as "attainment" or "nonattainment" for each criteria pollutant, based on the magnitude of an area's problem. Nonattainment classifications are used to specify what air pollution reduction measures an area must adopt, and when the area must reach attainment. Currently, the entire State of New Jersey is designated as nonattainment for the 8-hour ozone NAAQS. New Jersey is designated attainment for all other pollutants. For nonattainment classification refer to http://www3.epa.gov/airquality/greenbook/multipol.html

III. BACKGROUND AND HISTORY

The facility's current operating permit was approved on April 26, 2016. Please refer to the attached explanation sheet for the structure and configuration of conditions of approval, included in the Facility Specific Requirements section of this permit. This modification would allow the following changes to the facility's approved operating permit:

- 1. Removal of the current N.J.A.C. 7:27-19.5 NOx emission limit for oil firing,
- 2. Addition of the N.J.A.C. 7:27-19.25 exemption for emergency use of fuel oil including the inclusion of the requirements for compliance,
- 3. Addition of a 500 hour limitation on fuel oil firing for each combustion turbine,
- 4. Reduction of the existing fuel use limitation from the equivalent of 800 hours per year to the equivalent of 500 hours per year per turbine,
- 5. Removal of stack testing requirements from OS2 and OS12 with fuel oil use,
- 6. Reduction in Emission Unit 1 annual emission limits to reflect the reduction in fuel oil firing, and
- 7. Reduction in fuel use and heat input permit caps to reflect the adjusted fuel oil firing.

This modification will also change the facility-wide emission limits as listed in the following table:

	Facility's Potential Emissions (tons per year)										
Allowable Emission Limits	VOC (total)	NO _x	СО	SO ₂	TSP (total)	Other (total)	PM ₁₀ (total)	PM _{2.5} (total)	Pb	HAPs (total)	CO ₂ e (total)
Current Permit	47.4	248	194.1	4.61	44.2	201.5	72.1	65.5	0	0.7	685,131
Proposed Permit	47.4	231	191.4	4.41	39.3	194.7	67.9	61.3	0	0.3	668,278
Change (+ / -)	0	-17	-2.7	-0.2	-4.9	-6.8	-4.2	-4.2	0	-0.4	-16,853

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VOC	Volatile Organic Compounds	PM ₁₀	Particulates under 10 microns			
NO_x	Nitrogen Oxides	$PM_{2.5}$	Particulates under 2.5 microns			
CO	Carbon Monoxide	Pb	Lead			
SO_2	Sulfur Dioxide	HAPs	Hazardous Air Pollutants			
TSP	Total Suspended Particulates	CO ₂ e	Carbon Dioxide equivalent			
Other	Any other air contaminant regulated under the Federal Clean Air Act					

IV. CASE-BY-CASE DETERMINATIONS

No case-by-case determinations were required for this modification.

V. EMISSION OFFSET REQUIREMENTS

This modification is not subject to Emission Offset requirements.

VI. BASIS FOR MONITORING AND RECORDKEEPING REQUIREMENTS

The facility's operating permit includes monitoring, recordkeeping and reporting requirements that are sufficient to demonstrate the facility's continued compliance with the applicable requirements consistent with the following:

- 1. Provisions to implement the testing and monitoring requirements of N.J.A.C. 7:27-22.18, the recordkeeping and reporting requirements of N.J.A.C. 7:27-22.19, and all emissions monitoring and analysis procedures or compliance assurance methods required under the applicable requirements, including any procedures and methods promulgated pursuant to 40 CFR 64; and
- Where the applicable requirement does not require direct periodic monitoring of emissions, the Department requires periodic monitoring of surrogate parameters sufficient to yield reliable data from the relevant time period that are representative of the facility's compliance with the permit. monitoring of fuel consumption is required for turbines for purposes of monitoring compliance with the NOx limit, temperature monitoring is required for the SCR for purposes of monitoring compliance with the NOx limit.
- 3. In situations where the underlying applicable requirement did not specify any periodic testing or monitoring, the following factors were considered in the evaluation and determination of the appropriate methodology for compliance demonstration for each emission unit:
 - Pollutant's potential impact on public health and environment.
 - Emission unit and control device (older, less reliable equipment generally require more monitoring to ensure ongoing compliance).
 - Compliance history and margin of compliance.
 - Emissions variability and process stability (emissions units with highly variable process rates or materials generally require more monitoring to ensure ongoing compliance)
 - Quantity of emissions (emissions units that will have more impact on the environment generally require more monitoring to ensure ongoing compliance).

VII. APPLICABLE STATE AND FEDERAL RULES

This modification is subject to New Jersey Air Pollution Control Regulations, codified in N.J.A.C. 7:27-1 through 34, as applicable. A complete text of these regulations is available at: http://www.nj.gov/dep/aqm/rules27.html

This modification is also subject to Federal regulations listed below.

NSPS Subpart A: General Provisions

NSPS Subpart GG: Standard of Performance for Stationary Gas Turbines.

The Greenhouse Gas (GHG) emissions from this facility are 668,278 TPY CO2e and there is no GHG emission increase.

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VIII. FACILITY'S COMPLIANCE STATUS

The Responsible Official at the facility has certified that the facility currently meets all applicable requirements of the Federal Clean Air Act and the New Jersey Air Pollution Control Act. Based on this certification, the Department's evaluation of the information included in the facility's application, and a review of the facility's compliance status, the Department has concluded that this air pollution control operating permit should be approved.

This operating permit includes a permit shield, pursuant to the provisions of N.J.A.C. 7:27-22.17. A permit shield provides that compliance with the relevant conditions of the operating permit shall be deemed compliance with the specific applicable requirements that are in effect on the date of issuance of the draft operating permit, and which form the basis for the conditions in the operating permit.

Prior to the expiration of the Operating Permit's five-year term, the facility will be required to apply for a renewal, at which time the Department will evaluate the facility and issue a public notice with its findings.

IX. EXEMPT ACTIVITIES

The facility's operating permit does not include exempt activities such as office and interior maintenance activities, maintenance shop activities, food preparation facilities, cafeterias and dining rooms, etc. A complete list of exempt activities, as allowed by the Operating Permit rule, can be found at N.J.A.C. 7:27-22.1.

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